

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number  
WO 2005/033433 A1

(51) International Patent Classification<sup>7</sup>: E04C 5/12

(21) International Application Number:  
PCT/CA2003/001469

(22) International Filing Date: 3 October 2003 (03.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): UNIVERSITY OF WATERLOO [CA/CA]; Technology Transfer & Licensing Office, 200 University Avenue, Waterloo, Ontario N2L 3G1 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): AL-MAYAH, Adil [CA/CA]; 211-140 Weber Street East, Kitchener, Ontario N2H 1C9 (CA). SOUDKI, Khaled [CA/CA]; 203-250 Glenridge Drive, Waterloo, Ontario N2J 4H8 (CA). PLUMTREE, Alan [CA/CA]; 101 McDougall Road, Waterloo, Ontario N2L 2W4 (CA).

(74) Agent: GOWLING LAFLEUR HENDERSON LLP; Suite 4900, Commerce Court West, Toronto, Ontario M5L 1J3 (CA).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

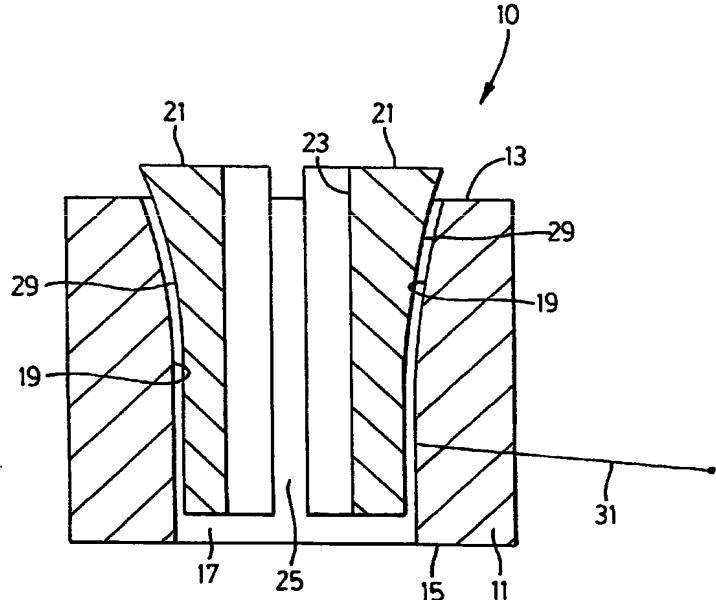
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

[Continued on next page]

(54) Title: TENSION ANCHORAGE SYSTEM



WO 2005/033433 A1

(57) Abstract: A wedge anchor comprising a barrel having a wedge receiving face opposite a rod receiving face, a passage extending therethrough between the wedge receiving face and the rod receiving face, the passage narrowing toward the rod receiving face and having an axial cross-sectional profile defining a convex arc; and, a plurality of wedges insertable into the passage, each of the wedges having a respective inner wedge face for defining a rod receiving passage for receiving a rod and an outer wedge face, opposite the inner wedge face, in axial cross-section having a profile complementary to the convex arc.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*